Method For Extracting Antineoplastic Components From *Bupleurum scorzonerifolium*

ABSTRACT OF THE DISCLOSURE

A method for extracting antineoplastic component from *Bupleurum scorzonerifolium* applicable in treating cell proliferative disorder is proposed. The antineoplastic components of *Bupleurum scorzonerifolium* include at least a Y-butyolactone centred heterocyclic compound with a Z configuration or E configuration at its carbon 2(5) position, and molecules, such as Chaihulactone, Isochaihulactone, Chaihulactone analogues or derivatives containing in the heterocyclic compound. From results of cell and molecular biological studies, *in vivo* animal test, and histological study, it is found that antineoplastic components extracted from *Bupleurum scorzonerifolium* are effective in suppressing a variety of cancer cell growths, inhibiting telomerase activity, as well as effective in killing with high specificity Taxol-resistant tumor cells at later stage of chemical therapy, making the components a new choice for anti-cancer agent, anti-HIV agent, or synergistic agent.